

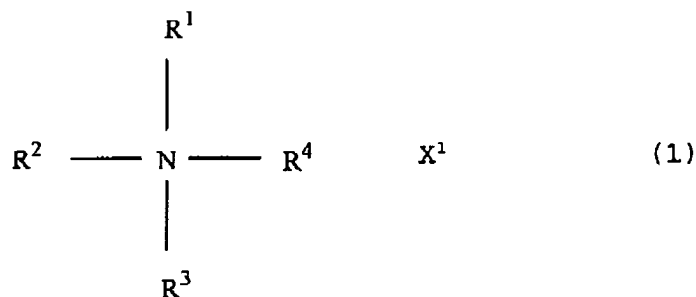
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PATENT APPLN. NO. 10/578,092  
RESPONSE UNDER 37 C.F.R. §1.111

PATENT  
NON-FINAL

IN THE CLAIMS:

1. (currently amended) An electrolytic solution for use in nonaqueous electrolytic lithium secondary cells which contains a room temperature molten salt, ~~i.e.,~~ which is an aliphatic quaternary ammonium salt of the formula (1), an organic solvent and a lithium salt of the formula (2), the electrolytic solution being characterized in that the organic solvent contains vinylene carbonate in an amount of 1 to 5 wt. % based on the electrolytic solution



wherein  $R^1$  to  $R^3$  are each a chain hydrocarbon having 1 to 4 carbon atoms,  $R^4$  is methoxymethyl, ethoxymethyl, propoxymethyl or isopropoxymethyl, and  $X^1$  and  $X^2$  are each a fluorine-containing anion.

2. (original) An electrolytic solution according to claim 1 wherein at least one of the fluorine-containing anions  $X^1$  and  $X^2$  contains tetrafluoroborate.

3. (previously presented) An electrolytic solution according to claim 1 wherein the room temperature molten salt is contained in an amount of 1 to 15 wt. % based on the electrolytic solution.

4. (previously presented) An electrolytic solution according to claim 1 wherein the room temperature molten salt is contained in an amount of 4 to 13 wt. % based on the electrolytic solution.

5. (previously presented) An electrolytic solution according to claim 1 wherein the room temperature molten salt is contained in an amount of 4 to 9 wt. % based on the electrolytic solution.

6. (original) A nonaqueous electrolytic lithium secondary cell comprising a positive electrode, a negative electrode, a separator and a nonaqueous electrolytic solution, the secondary cell being characterized in that the electrolytic solution according to claim 1 is used as the nonaqueous electrolytic solution.

7. (previously presented) A secondary cell according to claim 6 wherein at least one of the fluorine-containing anions  $X^1$  and  $X^2$  of the formulas (1) and (2) contains tetrafluoroborate.

8. (previously presented) A secondary cell according to claim 6 wherein the room temperature molten salt of the electrolytic solution is contained in an amount of 1 to 15 wt. % based on the electrolytic solution.

9. (previously presented) A secondary cell according to claim 6 which is characterized in that negative electrode is a carbon material which absorbs and desorbs lithium ions.